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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/987,010 11/13/2001		Tetsuyoshi Inoue	204552021700	6384	
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Barry E. Bretschneider			EXAMINER		
Morrison & Foerster LLP Suite 5500			NGUYEN, TUAN N		
2000 Pennsylvania Avenue, N.W. Washington, DC 20006-1888			ART UNIT	PAPER NUMBER	
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		DATE MAILED: 11/19/2002			

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.   Applicant(s)   Application No.   Applicant(s)		•								
Examiner   Art Unit   Tuan N Nguyen   2828				Application No	р.	Applicant(s)	. \.			
Tuan N Nguyen  Tuan N Nguyen  To MAILING DATE of this communication appears on the cover sheet with the correspondence address  Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Setherations of time may be environmental to the communication.  If the period for reply specified above is less than thirty (30) days, a reply within the databoty minimum of thirty (30) days will be considered items.  If the period for reply specified above is less than thirty (30) days, a reply within the databoty minimum of thirty (30) days will be considered items.  If the period for reply is specified above, his maintain within present and application.  If the period for reply is period days, the maintain address than the databoty minimum of thirty (30) days will be considered this communication.  If the period for reply is period days, the maintain address and the present of the period of the communication.  If the period for reply is period days, the maintain address and the period of the databoty of the		4		09/987,010		INOUE ET AL.				
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THE MAILING DATE OF THIS COMMUNICATION.  Edenaisons of them may be available under the provisions of 37 CPR 1.13(a). In no event, however, may a reply be timely filed after 50. (b) MADTHS from the mailing date of this communication.  It NO period for reply is specified above, the measure stated present values and the statutery minimum of thirty (30) days will be considered timely.  It NO period for reply is specified above, the measure statutory present values application to become ABANDONEO (35 U.S.C. § 133).  Any reply scene by the Dicta lear than these months after the mailed gate of this communication, even if timely filed, may reduce any second patient term deplacements after the mailed gate of this communication, even if timely filed, may reduce any second patient term deplacements after the mailed gate of this communication, even if timely filed, may reduce any second patient term deplacements. See 37 CPR 1.74(b).  Status  1) A reply second patient term deplacements after the mailed gate of the communication, even if timely filed, may reduce any second patient term deplacements. See 37 CPR 1.74(b).  Status  1) A reply second patient term deplacements and the patient term deplacement and the mailed gate of the communication. See 37 CPR 1.75(a).  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) is/are pending in the application.  4) Claim(s) is/are pending in the application.  4) Claim(s) is/are objected to.  3) Claim(s) is/are objected to by the Examiner.  4) The drawing(s) filed on 13 November 2001 is/are: a) accepted or b) objected to by the Examiner.  4) The proposed drawing correction filed on is: a)										
2a)  This action is FINAL. 2b)  This action is non-final.  3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)  Claim(s) 1-5 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5)  Claim(s) is/are allowed.  6)  Claim(s) is/are elpected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and/or election requirement.  Application Papers  9)  The specification is objected to by the Examiner.  10)  The drawing(s) filed on 13 November 2001 is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11)  The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12)  The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)  All b) Some c) None of:  1.  Certified copies of the priority documents have been received in Application No  3.  Copies of the certified copies of the priority documents have been received in Application No  3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  *See the attached detailed Office action for a list of the certified copies not received.  14)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a)  The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a prov	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
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#### **DETAILED ACTION**

### **Priority**

1. Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d). The certified copy has been filed in parent Application No. 09 987 010, filed on November 13, 2001.

### **Drawings**

2. Acknowledge the drawings were received on November 13, 2001.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or non-obviousness.
- 4. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable Hainz et al. (US 5138428) in view of Applicant own admission.

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With respect to claims 1, 2, 3, 4 Hainz et al. ('428) shows in figures 1,7 and discloses in column 1-2 a semiconductor component (fig 1: 1) mount on a base (fig 1: 2) having paste (fig 1: 3) provide between semiconductor component and the base, wherein the bonding temperature is approximately 370 degree C (col 1: 14-16). He further discloses the thick gold paste layer of 2-5um is being used, where solder is pressed out and creep out to reduce stress between the semiconductor and the base (col 2: 8-18), and curing of solder at room temperature (col 2: 21-22). However, Hainz did not disclose the thermal resistance of the semiconductor laser device is 90 degree C/W or lower. Based non applicant own admission in page 4, of prior problem in semiconductor using indium having thermal resistance about 60 degree C/W, while semiconductor using silver paste has thermal resistance of 100 degree C/W or higher; It would have been obvious to one of ordinary skill in the art to provide Hainz et al. with the semiconductor laser device having thermal resistance of 90 degree C/W or lower as disclosed by the Applicant. Since claim 1 recites the same or identical elements/limitations it is inherent to use patents ('428) to recite the method of manufacturing semiconductor laser device, product by process.

5. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable Hainz et al. (US 5138428) in view of Applicant own admission and Yoshiura Masayasu (JP 08-095504).

Hainz et al. ('428) and Applicant discloses the above, except that the conductive die-bond paste is silver paste. Yoshiura Masayasu (JP 08-095504) discloses in the DETAILED DESCRIPTION section [0012] light emitting diode device mounted on a base portion by using an electrical conductive die-bond silver paste. For the benefit of using the electrical conductive

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die-bond silver paste, it would have been obvious to one of ordinary skill in the art to provide

Hainz et al. and Applicant the electrical conductive die-bond silver paste for bonding the two

structure together.

Citation of Pertinent References

The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. It is cited primarily to show the product of the instant invention.

Kotato (US006099678A), Kato et al. (US006349104B1), Preston et al.

(US006187611B1), Suminoe et al. (US006380620B1), Takeda (US006014318A), Sota et al.

(US006064111A), Ohki et al. (US006143590A), Kinsman (US006239012B1) disclose

connection of laser diode device and fabrication of the same.

Communication Information

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Tuan N Nguyen whose telephone number is (703) 605-0756. The

examiner can normally be reached on M-F: 7:30 - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Paul Ip can be reached on (703) 308-3098. The fax phone numbers for the

organization where this application or proceeding is assigned are (703) 746-8592 for regular

communications and (703) 746-8592 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-1782.

PAUL IP

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Tuan N Nguyen

Wan Mgy November 6/2002